



**IN THE CLAIMS:**

1-43 (canceled)

44. (new) A control system for a household cooking appliance, the control system including:

- A. a memory that includes a first section for storing programs and information for a first set of pre-programmed appliance functions associated with basic cooking functions and a second section for storing programs and information for a second set of pre-programmed appliance functions associated with non-basic cooking functions of
  - dynamically changing the heating element configuration by selecting one or more heating elements for use at a given time,
  - dynamically selecting among heating sub-systems to select the type or types of heating in use at a given time;
- B. a control panel that is located on the appliance and includes one or more knobs or buttons or both that are activated to produce signals that select and provide associated parameter values for the first set of pre-programmed appliance functions;
- C. a controller that communicates with the appliance and produces data signals that select and provide associated parameter values for

the second set of pre-programmed appliance functions in  
accordance with user input; and

D. appliance control means that

i. responds to the signals produced by the control panel by utilizing  
the programs and information included in the first section of the memory  
to control the operations of the appliance in accordance with the selected  
first function and the associated parameter values, and

ii. responds to the data signals provided by the controller by  
utilizing the programs and information included in the second section of  
the memory to control the operations of the appliance in accordance with  
the selected second function and the associated parameter values.

45. (new) The control system of claim 44 wherein the system selects among heating sub-systems by selecting for use at a given time one or more of conventional, convection, microwave, infrared, steam sub-systems.

46. (new) The control system of claim 44 wherein the second functions dynamically change the configurations of the heating elements and/or select the type or types of heating sub-systems during a cooking process.

47. (new) The control system of claim 44 wherein

the appliance control means further includes transmitting means for transmitting status information associated with the current operating status of the appliance, the transmitting means transmitting the status information to the controller, and

the controller includes receiving means for receiving the status information and a display for displaying certain or all of the status information.

48. (new) The control system of claim 44, wherein the appliance control means includes a first clock, and the controller includes a second clock, the controller providing information from the second clock to update the first clock.

49. (new) The control system of claim 44, wherein the controller includes a remote control device and the appliance control means includes a receiving means for receiving signals from the remote control.

50. (new) The control system of claim 44 further including supplying status information to the controller, the status information including parameters that identify the progress of the function being performed by the appliance.

51. (new) The control system of claim 7 wherein said status information includes diagnostic messages for the technical servicing of the appliance.

52. (new) A control system for a household washing appliance, the control system including:

A. a memory that includes a first section for storing programs and information for a first set of pre-programmed appliance functions associated with basic washing functions and a second section for storing programs and information for a second set of pre-programmed appliance functions associated with non-basic washing functions of

dynamically selecting the time or conditions for starting or continuing a washing operation or a cycle of a washing operation,

dynamically selecting temperatures, timing and/or duration for one or more of the cycles,

B. a control panel that is located on the appliance and includes one or more knobs or buttons or both that are activated to produce signals that select and provide associated parameter values for the first set of pre-programmed appliance functions;

C. a controller that communicates with the appliance and produces data signals that select and provide associated parameter values for the second set of pre-programmed appliance functions in accordance with user input; and

D. appliance control means that

i. responds to the signals produced by the control panel by utilizing the programs and information included in the first section of the memory

to control the operations of the appliance in accordance with the selected first function and the associated parameter values, and

ii. responds to the data signals provided by the controller by utilizing the programs and information included in the second section of the memory to control the operations of the appliance in accordance with the selected second function and the associated parameter values.

53. (new) The washing appliance of claim 52 wherein the dynamic selection of the time for washing is selected to wash at low-cost energy times.

54. (new) A method of operating a household appliance, the method including the steps of:

- A. activating knobs or buttons or both on an appliance control panel to produce signals that select and provide associated parameter values to control the operations of the appliance in accordance with a first set of pre-programmed appliance functions; and
- B. providing user data to a controller that communicates with the appliance and produces data signals that select and provide associated parameter values to control the operations of the appliance in accordance with a second set of pre-programmed appliance functions that cannot be selected or controlled by the signals produced by activating the knobs or buttons or both of the

control panel, the second set of functions being associated with the dynamic selection of customized methods of operation, timing of an entire operation or the respective cycles of the operation, and/or temperatures and/or duration of the respective cycles of operation; and

C. operating the appliance

in accordance with the selected first function and associated parameters based on the signals produced by the control panel; or

in accordance with the selected second function and associated parameters based on the signals produced by the controller.

55. (new) The method of claim 54 wherein the step of providing data further includes providing data to dynamically select

heating element configurations,

among heating sub-systems;

times or conditions for starting or continuing washing operations or given cycles of operation, and/or

temperatures, timing and/or duration of cycles of operations.



PATENTS  
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Respectfully submitted,

A handwritten signature in cursive script, reading "Patricia A. Sheehan".

Patricia A. Sheehan

Reg. No. 32,301

CESARI AND MCKENNA, LLP

88 Black Falcon Avenue

Boston, MA 02210-2414

(617) 951-2500